at-wing students riot in Rome

ME. Feb. 25 (R). - Leftwing students attacked bucars and shops, threw petrol bombs and clashed police in street protests here today. Fifty students detained by the police, who used tear gas to dispete the protesters. One student and one policeman were led. The students commandeered several buses, entout the passengers and left three of the vehicles of the passengers and left three of the vehicles time as today's incidents, told a gathering of 5,000 solic students they must reject violence as a means hanging society.

An independent Arab political daily published by the Jordan Press Foundation جوردن تايمز يومية سياسي تصدر بالاتجليزية عن المؤسسة الصحفية الاردنية « الراي »



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AMMAN, SUNDAY, FEBRUARY 26, 1978 — RABIE AWAL 18, 1398

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Valley.

for Israel.

afat accuses Sadat whipping up antilestinian sentiment

Feb. 25 (AP). — Pal-leader Yasser Arafat used President Anwar

ident Sadat has brou-** k the American octoich is trying to impose tion on the Arabs e form of a Mi-st settlement," Mr. Ara-

'd'(()() Arafat spoke at a graceremony of a new un-Palestinian commandos indisclosed spot in Le-His speech was distriby the Palestine news Wafa and carried by newspapers today.

": Arafat had frequently ith Israel but has avoiticising president Sadat te since the President's Jerusalem last Novem-

hardening in Mr. Ara-: iblic stance was evidengered by the current antinian campaign in Egbacle of the Egyptian ... ndo raid on a Cypriot ield by two Arab terrwho killed a prominent n editor in Nicosia last

y. Palestine Liberation Oron, four of whose mem-

edly condemned the editor You-ssef Sibal's assassination. The ment in the Larnaca annual ment in the Larnaca annual contour Sunday in which 15 Egyptian commandos were killed yptian commandos were killed National Guardsmen.

Mr. Arafat claimed that President Sadat was deliberately whipping up anti-Palestinian sentiment in Egypt to set the stage for disassociating his country from its obligations toward the Palestine question.

"What's happening in Egypt is an attempt to inject the Egyptian people with hatred so that the people will be mentally prepared for Egypt's disassociation from the Palestinian cause," Mr. Arafat said.

"But I am confident that the Egyptian people will never accept a settlement in the Middle East without Palestine and the Palestine Liberation Organisation", Mr. Arafat added. Mr. Arafat said Sadat's co-

ncessions to Israel had all gone in vain. "So he is now trying v، deceive his own people to justify conclusion of a separate peace treaty with Israel." "And even this is not satis-

factory to Begin," Mr. Arafat went on. "Begin wants all the Arabs to sign unconditional surrender and say no to Palestine and the PLO. "But this will never happen.

Let the word go out to all that there will never be peace or stability in the Middle Eas: are hostages on the ter- without the state of Palestine eld plane, had repeat- or without the PLO."

The way this is formulated

by Prime Minister Begin, response to President Sadat's initiative, were in fact for a five-year period. I think it is very important to see the negotiations in that context.

It is a commitment for five years. But what is acceptable for five years may well not be acceptable ultimately.

anxiety that what is temporary may become permanent. But on the other hand if you don't in the present stagnant position... then in 10 or 15 years time you will be in exactly the same position.



Dr. David Owen (left) is accompanied by Minister of State Hassan Ibrahim (centre) and British Ambassador John Moberly (behind Mr. Ibrahim) at the start of a whirlwind visit by the British foreign secretary to Amman Saturday. (JNA photo)

Says Owen in interview

Peace must combine Palestinian rights with Israeli security,

legitimate rights of the Pales-

what you understand by the

legitimate rights of the Pales-

things but firstly it is their

right to return to their homes.

The actual territory of course

has to be negotiated but a sub-

stantial part of any agreement

will have to be the return of

the Palestinians to their homes

in what was the old Palestine.

tial that they be involved in

the negotiations about their own future. I think they should see a focus, a homeland, which

Q. How do you view Israel's

refusal to withdraw from occ-

upied Arab territory and insis-

tance on keeping settlements

blem is a very serious one and

is bound to hamper negoti-

ations. As to settlements with

a religious connection ... the

question is again perhaps the

time-scale in which to deal with

I take comfort from the fact

that many Arab countries have

always had Jewish people liv-

been a problem. The Begin pro-

posal that Israeli citizens wo-

uld live in the area may, in the

long term, be tolerable, just as

you have a lot of Arabs liv-

One can only hope for give and take on both sides over

this issue (and it depends on

ing in them and this hasn't

The new settlements pro-

they can identify with.

Secondly, I think it's essen-

cover a lot of

AMMAN, Feb. 25 (JNA). — In an exclusive interview with the Jordan News Agency here today, British Foreign Secretary, Dr. David Owen spelt out Britain's policy aiming for a Middle East settlement matching Palestinian rights with assurances for Israel's security.

tinians?

A. They

That's essential.

on Arab land?

ing in Israel.

them.

Highlights of the interview: Q. Do you think Israel Will reaffirmed its recognition of the move to meet Egyptian dem-ands and accept the right of tinian people. Can you clarify the Palestinians to self deter-

mination? A. I rather doubt it. This very serious issue is whether or not there should be a separate Palestinian state. I think this is bound to be something

that has to be negotiated. The British position has always been that there must be a homeland for the Palestinian people but not necessarily a sovereign state.

I have no doubt the Palestinian people must be involved in the determination of their future and therefore in the negotiations.

and the exact way in which they do it is going to be a contentious issue.

Another thing to recognise

There is an understandable ove at all ... if you just stay Q. Britain is a member of the EEC, which has repeatedly

In the long term I don't see it being accepted that they live apart from the surrounding co-mmunity, defended by their own forces,

> This issue of settlements is going to be a very tricky one.
>
> What is surprising is that
> we are now confronted with an issue of settlements in Sinai. Nobody thought that would be an issue although everybody realised the problems of sett-lements in the West Bank.

Q. Is your visit aimed, as has been reported, at expanding the scope of the current negotiations, particularly in the light of Prime Minister Callaghan's assurance to President Sadat that Britain would use its good offices in support of his peace iniative?

A. Britain attaches immense importance to reviving the momentum of that initiative. We don't delude ourselves about our power to influence events, but I think we have some marginal influence. We have good friends in the Arab world and we are good friends with Isra-Our basic position is that it is possible both to give the ans legitimate rights, and to see

ttlement which preserves the security of Israel, and assures its right to exist. The significance of President Sadat's initiative is that he changed the climate. Nobody can now doubt that the Arab world has recognised Israel's right to exist and is prepared to work with it as true neighbours.

As to trying to involve Jordan in the negotiations, that is a decision for Jordan That's a decision which you alone will make. We have always held the view that Jordan has a very important part to play. But the timing of your involvement is a decision for Jordan.

Dr. Owen warns peace must not be allowed run into the sand

By a Jordan Times staff reporter

AMMAN, Feb. 25 (JT). - British Foreign Secretary David Owen today discussed Middle East developments with Crown Prince Hassan and Minister of State for Foreign Affairs, Mr. Hassan Ibrahim, after warning countries in the region that peace moves could just drift into the sand if Egypt's initiative failed.

Dr. Owen told reporters on his arrival for a one-day visit that it was still possible, despite obstacles, to bring about

Explaining the timing of his visit, in an interview tonight with Jordan Television, Dr. Owen said that peace negotiations had reached a critical stage. President Sadat had, with his initiative, broken the mould in which the Middle East problem had got stuck.
"If we don't keep the mom-

entum of the peace initiative going", Dr. Owen had said earlier in his arrival statement. "then the whole movement towards peace, the atmosphere of conciliation, compromise and negotiations may just drift into the sands, and history will judge that an historic opportunity had been lost,"

British Foreign Office spokesman Mr. Hamilton Whyte told the Jordan Times that "there are at the moment a number of moderate Arab leaders who are anxious to pursue the path of negotiation... If everyone were to give up there would be a very serious

Mr. Whyte quoted Dr. Owen as saying that Israeli settlements on occupied territory were a possible major obstacle to peace. The British position -- Ibrahim, Dr. Owen and his party

TEL AVIV, Feb. 25 (R). —

U.S. Assistant Secretary of St-

ate Alfred Atherton today pre-

sented Israeli Foreign Minister

Moshe Dayan with Egypt's la-

test position on an Arab-Israeli

shuttle diplomacy between Is-

rael and Egypt, returned here

Mr. Atherton, on a round of

peace settlement

Atherton sees Dayan

ters.

identical to that of the U.S.-- is that these settlements are illegal. visited the refugee camp at Souf and flew on from there to Deir Allah in the Jordan

Asked whether this meant that there would have to be total withdrawal from occupied territories, Mr. Whyte said that the object of any negotiations would be to return as near as possible to the 1967 territories.

During private discussions today, Dr. Owen indicated that Britain does not take too seriously the Israeli protests about the proposed U.S. arms sales to Saudi Arabia and Egypt. Dr. Owen was reported as suggesting that whereas some years ago U.S. arms supplies to Israel could be defended on the grounds that Israel was really vulnerable in a military sense, that had now clearly ceased to be the case.

Britain's policy on arms sales had always been governed by the need to maintain a balance of forces in the region. Dr. Owen implied that the pendulum had now swung far enough in Israel's favour, and that this situation should be redres-

Mr. Ibrahim was quoted by JNA as telling Dr. Owen that in any Middle East peace agreement Jordan could not settle for less than total Israeli withdrawal from occupied Arab territories and recognition of Palestinian rights, including selfdetermination. Mr. Ibrahim made it clear

that Jordan wanted security guarantees for all parties in the Middle East, the official agency said.

But he had told Dr. Owen that Jordan would adhere to any principles that could be agreed upon as a basis for a comprehensive and just peace.

last night after two days of

talks in Cairo with President

Anwar Sadat and senior minis-

suggestions for a declaration

of principles governing a peace

accord in his efforts to recon-

cile differences between the

He had given them Israel's

Following his talks with Mr.

M.E. peace talks have failed, Rabin says

Dr. Owen leaves tomorrow

TEL AVIV, Feb. 25 (AP). Former Prime Minister Yitzhak Rabin criticised the Israeli government today, saying direct negotiations between Israel and Egypt have failed for the time being.'

In an interview with Israel Radio, Mr. Rabin criticised the government policy of creating settlements in occupied territory while negotiations were underway. He described sparsely populated Israeli footholds in

the Sinai as "ghost settlements," and said that in the West Bank, the government established "tricky settlements under the cover of archaeological excavations and military camps."
"These put big question

marks on Israel's credibility," Mr. Rabin declared.

The former prime minister said Israel's position preven-ted the inclusion of Jordan, which he called a moderate, pro-Western state, in Mideast peace talks.

"At present," said Mr.
Rabin, "Mr. Begin's position

is that Jordan can't expect anything west of the River Jordan. Why should Jordan join on this assumption?" On Friday, Foreign Minister Moshe Dayan said Egypt had hardened its position in the talks because of Jord-an's tough conditions for joining the negotiations.

Norld News Roundup...

Fermans reportedly fear new Israeli war

Feb. 25 (AP). — West Germany fears Israel would wage var to "create new realities" that would improve its negoposition for an over-all Middle East settlement, the Beirut per Al Nahar reported today. The apprehension resulted from ative response to a "secret" West German note urging) end its occupation of the West Bank and the Gaza Strip, spaper said. A West German Foreign Ministry spokesman : denied the existence of the note. He said his government's East policy has not changed. Al Nahar said in its Paris-reckly supplement that it obtained the text of the alleged which was harshly critical of the policy of Premier Mena-legin. The independent newspaper claimed the text was ed in an "urgent report" dispatched by an unidentified nbassador in Bonn to his government,

Argentinian train crash kills 50

I but most of the casualties were in two carriages which elded together by the impact, police said. Rallway officials a train was carrying about 1,000 passengers.

values Soviet air traffic over Turkey increases

RA, Turkey, Feb. 25 (AP). - Frequent flights by Soviet ember with flights every day in contrast with an average or eight flights a month before, said the sources, who decistore frequent again, they said.

Iran issues warning to Ethiopia

A, Feb. 25 (AP). - The Iranian Minister of Information re today that "Iran had nothing against Ethiopia" but if an troops should violate Somalia's borders, "we will not indifferent", he continued. Daryoush Homayoun said so a has only provided Somalia with medical and humanitarian

Colombians go to the polls

I'A, Feb. 25 (R). - Colombians vote tomorrow in parliay elections which are also likely to determine who will be at president of this South American republic. The ruling Party is expected to retain its wide margin over the main tion party, the Conservatives, but interest centres on the fity rating of the Liberals two leading contenders for the

Bomb explodes at Rafah railway station

VIV, Feb. 25 (R). — A bomb exploded at an abandoned raillation at Rafah on the occupied Sinal-Gaza border early to-olice said. There was no damage and no one was injured, ling to Israel Radio. Hand-written leaflets signed by the Liberation Front according to one report (but by the Pales-

. FE, Argentina, Feb. 25 (R). — About 50 people were killed re than 100 injured today in one of the worst rail accidents entine's history. Police said the accident occurred when a at out for Buenos Aires from the northern city of Tucuman seavy truck collided at a level crossing in Saa Pereyra disout 70 kms. north of here. About a dozen carriages were

reial aircraft, believed to be carrying arms shipments to a, crossing the airspace of this NATO-member country con-espite several Turkish warnings in recent months, official ; said today. Soviet air traffic reached unusual proportions be identified. After a Turkish approach to the Soviet Union hts were reduced in number for a while but are now beco-

said that his country would not in interfere in the conflict, we are called for help."

Anomination in presidential elections due on June 4.

lberation Organisation according to another), criticising Pre-Anwar Sada's peace moves with Israel were left behind,

Arab technology transfer centre to be taken up at Beirut meeting By a Jordan Times staff reporter Special to the Jordan Times

AMMAN, Feb. 25. — This Monday representatives of a number of United Nations agencies. Arab organisations concerned with economic development and science and technolopolicy and representatives national research and development institutions in the Arab World will meet in Beirut to discuss a draft feasibility study for the establishment ot an Arab Regional Centre for the Transfer and Development of Technology.
Dr. Albert Butros, Director
General of the Royal Scientific

Society, leaves for Beirut tomorrow morning to attend the meeting. The idea for the centre origi-

nated at the Fourth Session of the Economic Commission for Western Asia (ECWA) which was held in Amman during April 1977, where a report on institutional mechanisms for the transfer and development of technology was presented.

The session resolved to study the possibility of the establishment of a centre to serve all the Arab countries in the transfer and development of technolo-Mr. Muhiddine Souhra, of the Natural Resources, Science and Technology Division of ECWA told the Jordan Times in Amman this week.

A detailed plan of action was prepared, discussed and adonted. In accordance with that plan a first preparatory inteagency meeting -- grouping various specialised U.N. and Arab organisations took place during October 1977 to discuss the functions and services the centre can render to Arab coun-

Two missions, composed of representatives of various U.N. bodies (including ECWA) and Arab organisations set off for all Arab countries to explain the concept of the centre to government officials, to obtain the views of those officials on the priorities, services and functions the centre should render, and to collect data on each of the countries relating to the transfer and development of technology, such as the num-ber of existing research and development institutions and practices relating to the design and negotiation of contracts, educational facilities and the science and technology policy of the countries.

The missions visited 20 Arab countries during the period Nov. 1-Dec. 18, 1977. A draft feasibility study for

the establishment of the Arab Regional Centre for the Transfer and Development of Technology, based on the first inter-agency meeting, the findings of the missions and information gathered from a variety of sources, will be presented to the second inter-agency meeting which begins Monday in Bei-

The meeting's views on this draft will be incorporated into a second draft feasibility study, which will be circulated to all Arab governments prior to the inter-governmental ference expected to be held in Beirut at the end of March.

red after this meeting, taking into consideration the comments of the Arab representatives. The final step will be to submit this feasibility study to the next ECWA session for adoption. Once it is adopted, a me-

A final study will be prepa-

eting will be held of the pledging Arab governments to set up the centre and its regional institutions. If all goes well this should be done by the second half of 1978.

Jordan wants centre to be unique

Dr. Butros told the Jordan Times before leaving he would be carrying definite ideas with him. "Jordan wants this centre to be unique," he said -its functions must not duplicate those of existing centres

pointed out.
The centre could also serve a useful function in providing or sponsoring training for middle-level technicians, Dr. But-

ros said.

Asked whether Jordan was pushing for the centre to be set up in Amman, Dr. Butros pointed out that the decision on that will be made at the inter-governmental meeting at the end of March. However, he said that if the question does come up, "we would like to invite the centre to be set up

"Our choice of technologies is quite limited due to the lack of information. The choice is often reduced to the few technologies known to the Arab World."

in the Arab world. For Instance, if the centre or its associated institutions were to set up laboratories such as a building materials research centre, it would be duplicating something already being done by the RSS. What the centre can do is coordinate and integrate the activities of already existing research centres.

Dr. Butros said Jordan endorses such functions of the centre as the collection of information..., acting as a clearing house for information on available expertise in the Arab World. "We would like the centre to do a comprehensive survey on training in the Arab World, and on the degree of complementarity among Arab

Jordan is also pushing for the centre to provide training in the management of science and technology research. There is a palpable lack of expertise in research management in the Arab World, Dr. Butros

researchers.

Dr. Butros said Jordan has a science and technology infrastructure and relevant experience in the transfer of technology. It can provide high-level cadres in support of such a centre and make the facilities of the RSS available to it. 'The selection (of the site for the centre) should not be based so-

Functions and Services

ns," he added.

lely on financial consideratio-

The functions of the centre, which Mr. Soubra outlined on the basis of the deliberations of the first inter-agency meeting and the findings of the two missions, are:

1) INFORMATION SERVICES: starting with the documentation of the spectrum of different technologies available and providing a service similar to the conduct of pre-feasibility studies, for instance a comparative analysis on the cost of

units of a product using different processes available with special regard to the suitability of such processes to local condi-

tions. Mr. Soubra said the lack of information on technological processes was stressed by all the Arab governments contacted. The information would probably not be provided directly to private firms but upon request by national centres in each country which will forward the requests from private or public institutions.

2) POLICY DESIGN: with special emphasis on support services for negotiating contracts with foreign firms, contract design, licencing and project de-

3) TRAINING PROGRAMMES and assistance in institution building: to prepare the receivers to absorb and adapt tech-nology. This would involve primarily the training of senior staff and managers concerned with the transfer and design of technology. This will be done through workshops and seminars. The discussion at coming meetings should clarify the areas and level of training, Mr. Soubra said.

4) COORDINATION AND IN-TEGRATION: There are more than 300 research centres in the Arab World. Coordination is a must. The Arab Regional Centre will conduct a survey of these institutions and disseminate information on them in the Arab World. The centre could, if asked, analyse the development plans of Arab countries in terms of their technological components and assist those countries to identify

existing sources of technology The centre could serve as an information clearing house for the Arab World, Mr. Soubra pointed out. Annual directories could be prepared on Arab co-

ntractors, engineering firms and manufacturers. The centre could also compile information on ongoing and planned Arab projects allowing Arab contractors a better opportunity to participate in such projects and cut down dependence on foreign consultants.

5) DEVELOPMENT OF APPRO-PRIATE TECHNOLOGIES : "This is the hardest but most needed service. Our choice of technologies is quite limited due to the lack of information. The choice is quite often reduced to the few technologies available in the Arab World,"

Mr. Soubra said. One of the main functions of the centre will be to establish detailed criteria for assessing the "appropriateness" of technologies which will then help developing countries make the right choice.

The draft feasibility study indicates that the avenues to be pursued by the centre will include developing methodologies for the generation of appropriate technologies, studying the policy implications of specific, appropriate technologies in the field of investment, training, education and trade and evaluating the success of existing technologies in the

Supporting services for the above five areas will also be provided by the centre in the form of research programmes, seminars and other ongoing ac-

Arab World.

RAMI G. KHOURI Monaging Editor : JENAB TUTUNJI Deputy Managing Editor:

ALAN MARTINY

Editorial Staff:

Board of Directors: JUMA'A HAMAD RAJA ELISSA MOHAMAD AMAD MARMOUD AL KAYED RASSAM BISHUTI

Responsible Editor: MOHAMAD AMAD

Editorial and advertising offices:

Jordan Press Foundation University Road, P.O. Box 6710, Amman, Jordan Telephones: 67171-2-3-4

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It sounds good, but it doesn't work

U.S. Secretary of State Cyrus Vance is taking the right stand in threatening to withdraw the package of fighter plane sales to Egypt, Israel and Saudi Arabia if the Congress vetoes the Egyptian and Saudi Arabian sales, but he is wrong in saying that the arms sales will give the three countries the selfconfidence to move ahead towards a peace treaty. If the Americans have learned very little from their experience in the Middle East, they must at least have learned that their massive arms and economic assistance to Israel has clearly not given Israel the self-confidence to make peace. It had been a basic plank of the Kissingerian approach that only a well armed and security-confident Israel would have the self-assurance to make the territorial withdrawals necessary for peace. But it is precisely this assumption that the Israelis have proved is absurdly mistaken during the past several years, and it is a bit weak of Mr. Vance to tell his nation's Congress this week that the arms sales are needed to give the parties the confidence that Israel still refuses to demonstrate for its part. They must be having quite a chuckle at the Israeli embassy in Washington these days.

Mr. Vance is being tough, though, in his threat to withdraw the package deal if only the sale of planes to Israel is approved by the Congress. In this approach, he challenges the Congress to go along with a new American approach, which is to provide arms for both the Arabs and the Israelis, instead of only for the Israelis, as was done in the past. Thus we are on the verge of having a new strategy tested.

It may turn out that the Americans will be doubly wrong, in that neither the Arabs nor the Israelis will make peace, even though they are both receiving American arms. But it may also turn out that the American decision to provide sophisticated arms to Egypt and Saudi Arabia may be the move that nudges the Israelis to summon forth that elusive self-confidence that the Americans have been trying to activate unsuccessfully for so many years now. From the lessons of the past, however, one has to feel that the American thinking on this point is hopelessly flawed, as we can see today from an Israel armed to the teeth and as obstinate as ever.

ARAB PRESS COMMENTARY

AL DUSTOUR Saturday said that during his recent visit to the United States, the Israeli Foreign Minister, Moshe Dayan, concentrated, in a noticeable manner, on what he described as the "role which Jordan can play to make the present Egyptian-Israeli peace negotiations come to a successful conclusion..."

Now, Al Dustour goes on, Mr. Dayan has made new state-

ments to the effect that President Anwar Sadat has rejected an amended formula for a declaration of principles proposed by the United States, because it would be rejected by Jordan. Thus Dayan is trying to suggest that it was Jordan's hardline not Israel's, that impedes the Egyptian-Israeli deliberations...

The newspaper says that it doesn't serve Israel any good hiding behind Jordan or some other country when the whole world, including the U.S., knows too well the real causes for the failure of President Sadat's peace initiative, foremost among them are Israel's refusal to withdraw completely from Sinai and the West Bank its planting the occupied areas with settlements and denying the Palestinians the right to self-determination.

AL RAT says that ever since Mr., Alfred Atherton returned to the Middle East there seems to be a sort of a "tug of war," a Byzantine argument, initiated by Israel with Egyptian complaisance, to drag another party to the negotiations table... The newspaper goes further to suggest that "discussion is now going on to hang the Palestine issue on the rack until the vestiges of the July 1967 war are eliminated in areas where these vestiges are easy to

"What will happen after that, is left for future," Al Ra'i says. It says the case has become more than obvious. Meanwhile "a languid silence is shrouding most of our great Arab homeland, with nobody asking what is happening and for whose interest!"

Cinema critics wanted

The Jordan Times is looking for a qualified film critic to review films that are screened in Amman, both in the com-mercial cinemas as well as the cultural centres. We would like someone with previous experience in writing film reviews, and a proven expertise in the field of cinema and the performing arts in general. The position would probably involve writing one or two reviews per month, perhaps increasing to three or four per month with time. Interested persons who have the above qualifications and are interested in writing reviews for the Jordan Times should contact Mr. Khouri by telephone at the Jordan Times, at 67171, any time between 9:00 a.m. and 1:00 p.m., and between 5:00 - 9:00 p.m.

King Talal Dam is a triumph of complicated engineering

Text and photos by Susan Balderstone Special to the Jordan Times

Highly advanced technology used to overcome unique reservoir building problems during construction of Jordan's new King Talal Dam seems to have been successful, according to seepage monitoring tests around the site. As the water has been mo-

unting up behind the large earthfill dam providing englneers with their first real tests of the advanced technology used, there has been a race against time for other experts in the area.

American archaeologists have been scouring parts of the future lake bed to record the archaeological history of the area before it is lost under the water.

Anyone setting off one fine Spring day in the near future along the old road to Jarash, perhaps intending to picnic near the Zarqa river bridge, may be surprised to find his way barred by Jordan's first

The waters of the Zarqa fo rming the reservoir behind King Talal Dam have risen to within a few inches of the bridge and are expected to cover it completely after mo-

Turning left across the bridge, along the new road to the dam, the visitor is confronted with what is now surely one of Jordan's most spectacular views. The steep slopes of the Zarqa catchment area give the lake a rather fiordlike and picturesque appear-

reservoir has been gradually filling up since March when the diversion tunnel, which had for the last five years carried the river waters around the dam, was closed. Work on the last stages of hydromechanical equipment is almost complete and as the dam fills, continual monitoring of seepage rates through the complex invisible water barriers is being carr-

Unique problem

Mr. Toma Nickolovski, chief resident engineer for Energoprojekt, (design and supervising engineers for the dam), described these waterproofing procedures as a unique design problem in the history of dam

The dam will be famous for this problem" he said during a recent site visit by Mr. Fayez Arikat, a senior engineer with the Jordan Valley Authority, at which the Jos

dan Times was present. The problem was that the porous nature of the sandstone rock around and below the dam wall required very extensive treatment in orde to ensure that water could not seep through and weaken the structure of the dam wa-Il itself. This involved tunnelling for considerable dista-nces both into the dam abutments and beneath the dam wall itself.

From these galleries verti-cal drill holes were made at frequent intervals for considerable depth and filled with cement under pressure so as to penetrate and seal the porock cavities.

In this way a waterproof barrier has been formed which although invisible to the visitor has been almost a greater undertaking in engineering terms than the dam wall and associated spillway and easily appreciated.

The completed reservoir will hide more than unique engineering techniques as has been discovered by a team of archaeologists who recently surveyed the reservoir basin. Accompanied by Dr. Khair assine of the University of Jordan and Mr. Ali Mousa, Department of Antiquities Inspector at Jarash three archaeologists from the Universities of Michigan and Toronto, U.S.A., have spent one week collecting potsherds from the surface of the reservoir area which is not yet flooded, in an attempt to record evidence historic and prehistoric habitations before they are lost beneath the rising waters of the lake.

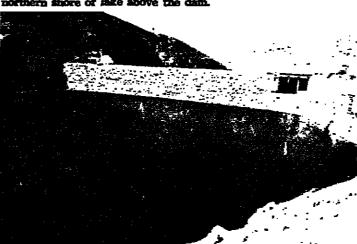
Tombs found

Mr. John Lundquist, Bryant Wood, and Terrie Kerestes have found evidence of a number of areas which were inhabited to varying degrees on the eastern part of the reservoir basin. At least fifteen sites of human occupation from as early as the Neolithic period, 9000 B.C., to the Byzantine, around 400-600 A.D., have been recorded.

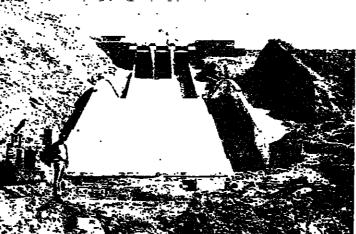
These included what was probably a Byzantine fortress but has been buildozed for the new road, above the present bridge. Near here also they have recorded the remains of the abutments to an Umayyad or Mameluke bridge, below



Mr. Fayez Arikat, assistant to the Director of Execution for the King Talal Dam at the Jordan Valley Authority, stands on the northern shore of lake above the dam.



spillway gates on the left.





Tail water of the reservoir at the old Zerga River bridge on the

those of the bridge which was destroyed in the fighting of

Perhaps the most interesting area of settlement is beneath the present staff housing site, where the archaeologists have discovered tombs on the east side, but unfortunately at water level.

This hill site, rising out of the water at a bend in the lake, is one of its most picturesque features. It is easy to imagine it as a former castle or fortress site. Needless to say the scenic

qualities of the reservoir are side benefits only, although it is hoped in the future that some tourist and recreational use may be made of these. The main purpose of the dam is to provide water for year-round irrigation to the southern section of the Jor-

dan Valley, by feeding the extension of the East Ghor Canal and a sprinkler irrigation system in the Zarqa triangle. However as Mr. Zafer Budelri, vice-president for dams with the Jordan Valley Anthority explained, a very significant function of the dam will be to supply water to Amman for domestic use.

Registration of tenderers for the construction of water treatment plants and pipelines to Amman is currently under-way. It is expected that this work will be completed by the end of 1980 when Mr. Budeiri said 16 million cubic metres of water will be ma-de available to Amman.

Sixty year life

The maximum life of the dam under present conditions is expected to be around sixty years (allowing for the raising of the dam wall another ten metres after about thirty years) because of the gradual build-up of sediment brought into the reservoir by its varlous tributaries.

This lifetime would be extended to ninety years if recommended procedures are carried out by the Ministry of Agriculture to restrict the silting up process. These in-volve establishing ground cover in the catchment areas, building retaining walls to prevent erosion of the steep slopes where planting is not possible and constructing check dams, at points along the wadi tributaries, to trap the

The Jordan Valley Authority, which is an amalgamation the previous Jordan River and Tributaries Regional Corporation, the Natural Resours Authority and the Jordan Valley Commission is now planning an even greater reservoir project to control and make maximum use of the waters of the Yarmouk River on the Syrian border.

It was a recommendation in the feasibility study for this project that an archaeological survey team should visit the area that will be inundated to identify and evahuate possible sites of archaeological importance, that led to the survey also of the King Talal reservoir basin.

The archaeological team is now concentrating on the pro-posed Yarmouk reservoir basin, to be known as Magarin Dam. As this project is still in the design stages there should be ample time for any significant sites in the area be evaluated and excavated if necessary.

The team is to submit its report listing recorded sites and recommendations to the Jordan Valley Authority in March, when funding negotia-tions for the entire project are to take place.

Washington helpers do some field work

Two visitors from Washington, D.C. have been in Amman for the past several weeks, each carrying out their quiet behind-the-scenes work to promote Jordan's needs and achievements throughout the wor-

From the Washington office of a leading American public relations firm Doremus & Co. who has the Jordanian P.R. account in the U.S. is Mrs. He-len Khal, who, though she doesn't have the title, is more or less editor of the quarterly ma-gazine "Jordan", which is fo-und on all Alia flights as well as being distributed to a mailing list of 50,000 throughout North America. One of the projects Mrs. Khal

working on now is gathering information for a new tourist map of Jordan That's right, folks, that old 1969 map that's missing many roads and sites is finally being updated. And, to make the venture doubly exciting, plans are to print a street map of Amman on the reverse side of the Jordan

If all goes according to schedule -- which is more likely to happen in Washington than in Amman -- the map should be off the printing press in a few months.

The other Washington-based friend of Jordan who has been here for a few weeks is Mr. Charles R. Fazio. Executive Director of Advancement Programmes of the management and research consultants McManis Associates, Inc., also of Washington, D.C. fame. Mr. Fazio, has been assigned by McManis Associates to provide consultancy and planning services to the Queen Alia Fund, which was formally launched by His Majesty the King earlier this

Working under the day-today guidance of the Fund's Chairman and Executive Director, Her Highness Princess Basma, Mr. Fazio has been verv involved in laving the groundwork for the Queen Alia Fund and setting in motion a network of high-powered international personalities that will work with the Amman-based home staff to make the Queen Alia Fund a major force in financing investments in social develooment projects in Jordan. Based in Washington, Mr. Fazio has been coming to Jordan for a few weeks every several months and will continue to do so for the rest of this year,

A certain German

rking and literate lady for th-

ree months as of this weekend,

with the departure of Maha

Boulos for what is officially called an "attachment" to the

Voice of Germany Radio in

Cologne. Maha wili be working

as a regular staffer there, in

the English Service of the West

German Radio's Asian Depart-

ment, with the aim of picking up some of the sophisticated

techniques they use and pos-sibly introducing them into our

service here. For those who keep records, Maha's will be the first such attachment from

the English Service of Radio

Jordan, as previous Jordanians

who took advantage of the Ge-

rman-financed venture have al-

ways come from the Arabic

Middle East Travel, the Middle East Yearbook and Al Iktissad attachment Al Arabi. Radio Jordan's English Service will be losing a hard wo-

On his way to trouble

Yedder, he size has responsib

lity for Middle East Transport

Overnighting in Amman last week on his way to troub led Larnaca airport to photographically record the afterms th of the Egyptian commandos-Cypriot National Guard abcotout was Claude Salbani, the Middle East correspondent for the French newspaper agency

Claude has been a free visitor to Amman over the year rs and his photographs of wa-rs, hijackings and diplomatic shuttles have graced the pages of most international news

His was the photograph of Kaffiya clad Henry Kiss in Petra which appeared thro-ughout the world and caused doubts about the American Secretary of State's objectivity

On the beat

Stopping over for a few days on one of his regular "keepin touch" tours of area week was Raphael Calis, Editor-in-Chief of the London based Middle East magazine. He had just left Cairo and

was heading for Beirut and was flush with the success of a recent participation on popular Capitol Radio which broadcasts to the greater London area. Mr. Calis participated in a discussion on the Middle East with a Zionist group representative which was conducted live on the air. Under the programme's format the panelists then field phone in queries from

By all accounts, the cool, collected and as-armed-with-facts as his magazine is, Mr. Calis rolled right over the highly emotional and factually ill- informed advocate of the Israeli

Mr. Calis is heading for the United States shortly and already a programme of television and speaking appearances have been drawn up for him. As recently appointed Vice President for Middle East publications of International Communications, the fast growing publishing empire of Afif Ben

Elsteddfod for Amman

The next meeting of the Bri. tish Ladies of Amman, at the British Embassy Club on Wednesday March 1st, is to be given over to the Welsh Ladies in the community. I understand they have been brushing up on their Welsh language and the Welsh National Anthem, in preparation for the celebrations of Welsh National Day.

The ladies have also been making lots of traditional Welsh delicacies to serve their fel-low members and children. No. Welsh rarebit, or rabbit as an Arab colleague of mine habitually calls it, is not on

But there will be lots of goiden daffodils, specially flown in for the occasion

Sorry, the festivities are not open to the public. The meeting is restricted to British la-

ticularly Welsh and wants some of the national flowers any way, I did see a bucketful of daffodils outside Ròzanna's f ower shop on fifth circle the other day.

Jordan, France sign economic

PARIS, Feb. 25 (JNA). -- Jotdan and France Friday signed here an agreement on the encouragement and protection of investments aimed at promotion of economic relations betw-

een them.

agreement

The agreement was signed for the Jordanian government by ambassador in Paris, Mr. Khalil Al Salem, and for the French government by the minister in charge of economy and finance affairs. The French official in a sp-

eech at the signing ceremony praised the development of economic relations between France and Jordan. He referred to the financial protocol signed last year under which France gives 250 million French francs worth of loans for financing a phosphatic fertiliser plant as an expression of its wish to support Jordan's development projects.
Dr. Salem who also spoke

said the accord adds a new element to economic cooperation between the two countries. He thanked France for its economic and technical assistance to Jordan.

Both men expressed the hope that investments between Jor-dan and France would increase in the future.

WHAT'S GOING ON

The Jordanian Society for the Prevention of Road Accidents, and the Jordan Road Society, invite the public to attend a lecture by, Dr. Leroy Dunn, a safety education expert from the U.S.A., at 6:60 p.m., Monday, Feb. 27th at the Royal Automobile Club, Wadii

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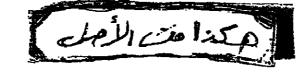
SPRING SALES

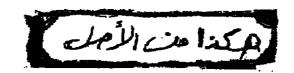
On CANNON towels, CANNON sheets EVERWEAR Bed covers STARTRITE Children shoes Children clothes

Photographers wanted

The Jordan Times wants to see the work photographers with black and white prints of any and all scenes in Jordan, either individual pictures of collections of photo-stories on a single theme. We are interested in publishing individual photos or photostories on a regular basis, and we'd like to see the work of local photographers, both Jordanians and non-Jordanians alike.

If you have photos to show or would like to do some feature photos for the Jordan Times, please contact Mr. Khouri at the Jordan Times offices any day between 9:00 and 12:00 a.m. and between 4:00 and 8:00 p.m. to make an appointment.





Jordan can now cope with more tourists says Ghaleb Barakat

mister of Tourism and Andities Ghaleb Barakat yestering presided over a meeting of the General Assembly of the vivel and Tourism Agents in the projects the ministry had ecoted within the Five-Year velopment Plan at a cost of 25 million — mainly investings in the hotels sector.

Ar. Barakat said Jordan is qualified to receive all unable to accommodate the unable to accommodate the picture now is quite different due to the increased numbers of hotels during the past

fr. Barakat estimated the al hotel accommodation at 100 rooms. The increase, in course of this year, would the course of this year, would the course of the year, would accrose by coopeion between travel and to-sm agencies and the hotel nagements.

fr. Barakat pointed out that

fr. counks to Alia, the Royal Jor
start lian Airline, enlisting new

raft, Jordan is now linked

NAME OF COMPANY

Industrial, Commercial and Agricul-

Jordan Petroleum Co.

Jordan Glass Factory

1300 g

to all parts of the world, in addition to other world airlines flying to and from Jordan.

A new airport, now being co-

nstructed at a cost of JD 35

million, would greatly enhance the tourist movement in Jordan, the Minister of Tourism added.
On the overland route, he said that Jordan General Transport Corporation is now running 24 passenger buses on the outside land routes, and they

might be increased to 30 buses in the near future.

Among the big projects now being implemented is the Ma'in hot springs, in the Madaba district. The government is also interested in improving the Jordan Hammeh in Irbid govern-

orate, Mr. Barakat said.
Other projects include the construction of an artificial lake and new hotels in Aqaba, he added.

The Director General of Tourism Michael Hamarneh focussed on the strengthening of the relationship between the tourist offices and the ministry in order that both work as one team for improving tourist movement in the Kingdom.

Amman Stock Exchange Report

value

JD)

Ð

JD

JD 10,000

1.000

Volume Opening

price

traded

Highest

selling

price

2,150

Sharif Zeid Ibn Shaker hopes for military cooperation with Spain

SEVILLE, Spain, Feb. 24 (JNA). — Lt.-Gen. Sharif Zeld Ibn Shaker, the Commander in Chief of the Jordanian Armed Forces said here today that he hoped the strong bond of friendship between His Majesty King Hussein and King Juan Carlos of Spain would extend to include the military aspect. Sharif Zeid, who is on an official visit to Spain, also said he expected that a number of senior Spanish army generals will shortly pay a visit to Jordan.

During his visit, the commander in chief has toured a number of military institutions and arms industry cenires.

Algerian envoy will meet Prince

AMMAN, Feb. 25 (JNA). — The Algerian ambassador to Lebanon, Mohammad Yazeed, today arrived here on an official visit during which he will meet His Highness Crown Prince Hassan.

Mr. Yazeed said that his visit to Jordan is to exchange information and points of view as lately agreed on during the visit of the Algerian President, Houari Boumedienne, to Jordan.

U.S. Agriculture official arrives

AMMAN, Feb. 25 (JNA). — Michigan State Secretary of Agriculture Saturday arrived here on Saturday evening for a visit of several days during which he will meet a number of high ranking officials to discuss possibilities of cooperation between Jordan and the American State of Michigan in the fields of agriculture and commerce and to negotiate agreements in this field.

Lowest

selling

price

42,000

2.150

6.800

price

42.000

2.150

National News Roundup

Prince Hassan contributes to mosques

AMMAN, Feb. 25 (JNA). — His Royal Highness Crown Prince Hassan, the Viceroy, today made a contribution of JD 5,000 towards the construction and furnishing of mosques in the northern regions of the country. The mosques numbering thirty are currently under construction in villages recently toured by the Crown Prince.

Congratulations to Kuwait

AMMAN, Feb. 25 (JNA). — His Royal Highness Crown Prince Hassan, the Viceroy, today sent a cable of good wishes to the Ruler of Kuwait on the anniversary of Kuwait's National Day.

Jordan's economy in 2001

AMMAN, Feb. 25 (JNA). — The under-secretary of the ministry of industry and commerce, and President of the Jordanian Economists Association, Dr. Hashem Dabbas, said today that the Association is currently involved in the preparation of a working paper dealing with economic strategy in the year 2000. He told the Jordan News Agency that three Jordanian researchers in the field of industrial development are currently taking part in the preparation of the working paper which is entitled: "Industrial development in the coming two decades."

More students at vocational centres

AMMAN, Feb. 25 (JNA). — According to statistical figures released by the Ministry of Education today, more than 18 per cent of secondary school students in the Kingdom now follow training courses at the Ministry's vocational centres. The Ministry's goal under the Five Year Development Plan is to have 30 per cent of all students in the secondary stage at such centres in accordance with the current five-year development plan.

Ten clinics to be opened in Irbid Governorate

IRBID, Feb. 25 (JNA). — The Health Department of the Irbid Governorate will open clinics in some ten villages with a population of 15,000 people during this year sources at the department said today. Last year several village clinics were transformed into health centres by the Department which also opened five maternity centres in several other villages throughout the governorate.

Majali leaves for education meeting in Iran

AMMAN, Feb. 24 (JNA). — The Minister of Education, Dr. Abdul Salam Majali, left here today for Tehran to take part in the Middle East regional conference on Health and Education due to open in the Iranian capital on Sunday. The five day conference, sponsored by the World Health Organisation (WHO) and UNESCO, will be dedicated to the discussion of subjects connected with systems of education and education planning in Middle Fast countries and means of improving them

U.S. to pay to promote Jordanian women

AMMAN, Feb. 25 (JNA). — The United States is to give Jordan an unspecified financial grant for the purpose of promoting Jordanian women's role in the country's economic and social development. According to an agreement signed at the National Pianning Council today, the grant will be channeled through the United States Agency for International Development USAID and will be used to carry out studies, the holding of seminars and the collection of data which will eventually determine women's role in the national labour force and development. The agreement was signed for Jordan by the chairman of the National Planning Council, and for the U.S. by the American Ambassador, Mr. Tom Pickering.

Delegation will visit Cairo to discuss

Mideast roads

AMMAN, Feb. 25 (JNA). — Jordan will participate in the Middle East and North African regional conference on roads which is to start in Cairo on April 19th. The six-day conference is sponsored by the International Road Federation in cooperation with the Egyptian Ministry of Transport. A delegation from the ministry of public works will represent Jordan at the meetings.

Exports to Lebanon quadrupled

AMMAN, Feb. 25 (JNA). — Jordan's exports to Lebanon last October were four times the figures of the same month in 1976. At the same time imports from Lebanon increased by twenty four per cent in the same period. Figures released by the statistics department here today showed that October 1977 exports to Lebanon amounted to JD 425,000 in comparison with JD 82,000 in the same month of 1976. Exports were mainly vegetables, fodder, medicine, household commodities and plastics. Imports amounted to JD 1,172,000 against JD 878.000 in October 1976. These were mainly fruits, lubricating oil, formica, medicines, and iron bars.

More taxes paid last year

AMMAN, Feb. 25 (JNA). — Total Treasury revenues from income tax and social security contributions in Jordan last year totalled JD 13,500,000 against JD 9,800,000 in 1976. The increase amounting to 35 per cent was attributed mainly to increase in collections from the public and employees in the private sector.

New trade agreement with Egypt expected

AMMAN, Feb. 25 (JNA). — A new Jordanian-Egyptian trade agreement is expected to be signed here Sunday following several days of talks between economic teams from both countries. The two teams led by the Under Secretaries of the Ministries of Commerce in Jordan and Egypt discussed in today's session ways of increasing the volume of trade between the two countries, and the amendment of the existing trade protocol.

Jordan Phosphate Mines JD, 1.090 1,020 2.150 2.100 2.100 2.050 — on Sunday. The five day conference, sponsored by World Health Organisation (WHO) and UNESCO, will dedicated to the discussion of subjects connected we systems of education and education planning in Mid East countries and means of improving them.

9.900

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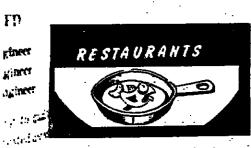
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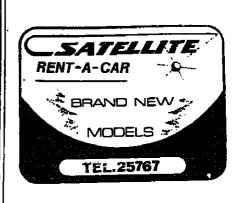


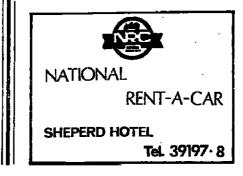




















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Coal strike negotiators reach agreement, urge swift minor ratification

WASHINGTON, Feb. 25 (AP). — President Jimmy Carter announced last night that negotiators have reached agreement to settle the record 81-day United States coal strike and urged miners to ratify it without delay. Mr. Carter said if the 166,000 striking miners do not vote to accept the negotiated terms, "time will have run out for all of us" and he will take drastic legal action to force an end to the walkout.

sident Arnold Müler echoed Mr. Carter in urging ratification. The tentative agreement, already approved by the union's Bargaining Council, goes straight to the coalfields where the union's rank and file has 10 days to vote on it.

The agreement came after week of mounting White House pressure to end a strike that had caused power shortages and thousands of job layoffs from the upper Midwest to the mid-Atlantic U.S.

Government sources said the tentative contract follows essentially the agreement worked out earlier this week between the union and the independent Pittsburg and Midway Coal Mining Co. It would increase miners' wages by \$2.40 an hour over the next three years. That will mean an average daily wage of \$81.60 for miners who now get an average \$62.40 a day.

Total wages and benefits would rise about 37 per cent over the life of the agreem-

The government sources said the contract also calls for penaities against leaders and pickets in wildcat, or unauthorised, strikes, although the industry dropped its demand for fines against UMW members who honour illegal picket li-

"I'm delighted we've got an agreement," Mr. Miller said. It was a long, bitter, hardfought struggle. Mr. Carter made his anno-

leaders

TUNIS, Feb. 25 (R). - Tunisia's trade union organisation, the UGTT, will hold a one-day congress today to elect new leaders to replace those now in detention.

The former leaders have been accused of being responsible for bloody clashes last month in which at least 46 people were reported to have

The congress is expected to reverse the policy of former UGTT Secretary General Habib Achour, also in detention. Mr. Achour resigned from the Political Bureau and Central Committee of the Tunisian Socialist Party and attacked the economic policies of Prime Minister Hedi Nouira.

by Bob Allison

CAIRO, (F.T.) - As the eco-

nomists tell it, the Bank of

England was the first to use

paper for money when it int-

roduced banknotes in 1694 th-

at could be used in place of

gold or silver. But Egypt was using paper money 5,000 ye-

The ancient Egyptians made

Parchment-like sheets

their paper out of the papyrus

of this papyrus were worth their weight in banknotes.

Other nations eagerly accep-

ted them in exchange for go-

ld, silver, ivory, bronze, co-

pper, turquoise and myrrh.

Papyrus scrolls enabled kings,

scholars or poets to jot down

their thoughts quickly with pen and lampblack. Before

papyrus they had to chisel

them out on stone or incise

Lost secret

precious that they made a st-

ate secret of the process for making the paper. The secret

was lost a thousand years ago

when the Chinese method of

making paper with rags and

wood reached Egypt. The Chi-

nese paper was much easier to make, and much cheaper.

Now a retired Egyptian di-plomat, inspired by Chinese

peasants making paper in their backyards, has re-discov-

ered the process for making

paper out of papyrus. He is

on his way to making a fort-

une with the product. Once

again, Egypt has a monopoly

The man who spent five ye-

ars in finding out how the

OR DEDVIUS DEDET.

The pharoahs considered their papyrus monopoly so

them in baked clay tablets.

ars before.

United Mine Workers Pre- uncement in the White House press room less than two hours before he was to have appeared on nationwide television to announce what he said would have been drastic legal action. He said the negotiated agreement would be far better for the United Mine Workers, the coal industry and the nation.

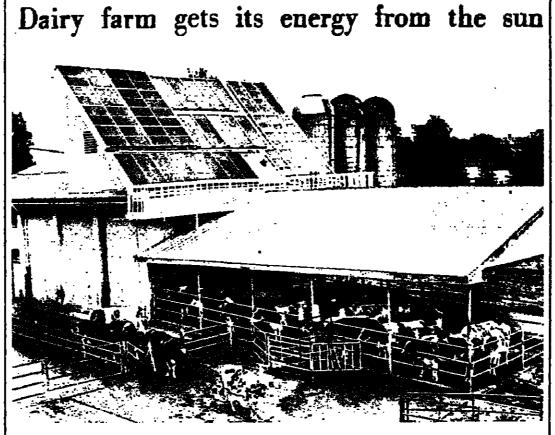
Mr. Carter's brief appearance was broadcast both on radio and television, and he used it to appeal directly to strikers to approve the

The choice is now yours to make but I hope you will follow the lead of your Bargaining Council and ratify the

agreement because it serves the national interest as well as your interests and those of your families. If it is not approved, I will have to take the drastic actions I was prepared to take tonight. Mr. Carter reportedly was

prepared to invoke strike-end-

ing provisions of U.S. labour laws and to seek congressional authorisation for a government takeover of the mines. Mr. Carter also said he will appoint a new presidential commission to work with labour and management on problems involving health, safety and productivity in the mines. issues throughout the ne-



all the hot water for washing and heating this miking parior at the Agriculture Research Centre in Beltsville, Maryland is supplied by the experimental solar collectors on the roof. Made with commonly available materials, the system also offers the potential for cutting milk refrigeration costs in half. (IPS photo)

spending

wave energy on a large scale.

Mr. Alex Eadie, Parliamen-

The British government does not expect to get very much energy out of the renewable sources like the sun, the waves and the wind before the end of this century. But it does expect that in 50 years' time these will become major sources of energy -- and the research to make that practicable has to be started now.

By Roy Hodson the Financial Times, London

LONDON, (F.T.) - The British government has started take seriously within the last few months the idea that important contribution can be made to the nation's future energy supplies from the renewable sources.

Wind power, wave power, and the geothermal heat locked deep in the earth, are being seen as offering the best chances of providing power in commercial quantities if suitable investment is made in both design work and new engineering techniques.

Solar energy is a less certain energy source for Britain because of the many days in the year when the sun obscured by cloud in Britain's uncertain climate; but it is not being neglected.

The government is starting to provide money to turn ideas about renewable energy into practice. So far the quantities of money voted amount to only a trickle. But it is significant that the Department of Energy is backing a range of possibilities and intends to increase the cash flow as the pace of research and development quickens.

Sea wave energy

Egyptian rediscovers Pharaohs'

secret art of making papyrus

The pharaohs considered their papyrus monopoly

so precious that they made a state secret of the process

for making the paper. The secret was lost a thousand

years ago -- but now a retired Egyptian diplomat has

rediscovered it. Furthermore, he finds there is plenty

Work is now all under way

of money in papyrus.

Egyptians made papyrus paper

is Dr. Hassan Ragab, soldier,

engineer and diplomat. His

last diplomatic post was Pe-

king. It was here that one day

he visited a small cottage inproject for making

paper. Dr. Ragab thought: He-

re is a way that Egypt's poor

peasants can supplement th-

After he retired Dr. Ragab

began work on the project.

Months later a friend asked

him: "Why don't you make paper with papyrus, the way

Dr. Ragab says: "You kn-

ow, it seems so obvious now.

But in fact I didn't have pap-yrus in mind when I started

Search for the process

He spent months in the lib-

raries reading everything he

could find on papyrus. Only one account of the process for making paper with it exi-

sts. It is by Pliny, the Rom-

an historian who visited anc-

lent Egypt. It is not, Dr. Ra-

gab learned hundreds of ex-

He spent a year working wi-

th a plant that turned out not

to be papyrus. The real pap-yrus plant, he found, no long-

er grew in Egypt. He had to

travel several hundred miles

up the Nile before finding it

There were other setbacks.

periments later, accurate.

eir meagre incomes.

our ancestors did?"

upon a £2.5m. programme backed by the department to build and test four devices which might be suitable for extracting energy from sea

Visitors to Loch Ness, Scotland, next summer may see what will look like a number of mechanical ducks "nodding" on the lake. They are the so-called Salter Duck an oscillating vane first invented by S. H. Salter at Edinburgh University. A number of them are mounted upon an axle and as they nod in the waves power is obtained from the movement.

The Cockerell Raft is another idea being tried. It consists of rafts which take up the contours of waves with hydraulic motors or pumps mounted between them to convert the

The department is also supporting work on two systems of using columns. In one method a series of high and low level reservoirs are used. The waves drive sea water through the system and energy is extracted. Another idea is the National Engineering Laboratoscillating water column which is rather like a box floating in the sea with its open side downwards. The wave motion inside forces air in and out of the top, providing po-

None of the methods has

Once he had found the ri-

ght plant, Dr. Ragab spent

two years learning how to

make it grow in Egypt. Papy-

rus is an aquatic plant, a tali willowy reed that tapers into

a flower tassel at the top. In

ancient Egypt it grew along

the banks of the Nile. Scho-

lars feel sure that the biblical

bulrushes in which Moses was

found were papyrus, and that

the small boat in which Moses

was found were papyrus. Norwe-

gian explorer Thor Hyerdhal crossed the Atlantic in a boat

made of papyrus (Dr. Ragab was an adviser on this pro-

Besides making paper and boats with it, the Egyptians used it for making rope, bas-kets, boxes, mats, sandals, sie-

ves and stools. They also used

to eat the lower part of the

stem which contains both su-

This sugar and starch is the

essential ingredient of papy-

rus paper. It forms the glue

which holds the papyrus st-

rips together to make a she-

But it took Dr. Ragab th-

papyrus paper. He began

the bathroom of his own

ousands of experiments to

learn all the secrets of mak-

house where he used to lea-

ve strips of papyrus soaking

in the tub. Now three house-

boats, numerous tubs, assort-

ed machinery and more than

forty workers are used in the

gar and starch.

mercial scale but the government is encouraged that so far no really fundamental problems have arisen to indicate that it will not be technountryside. logically possible to harness

tary Under Secretary of State for Energy, was sufficiently optimistic recently to forecast at a conference organised by the American Coastal Society, that a line of wave energy machines placed along a 400 kilometre stretch of water west of the Hebrides might contribute the equivalent to 15 million tons of oil a year to three years to run. Britain's electricity supply sy-The point now being appre-

Tapping the wind Some £92,000 has been put up

by the Department of Energy develop a vertical axis wind machine. Designed by Dr. Musgrove at Reading University the machine is to be developed with the help of the British Aircraft Corporation who will carry out wind tunnel experiments, Taylor Construction who will do structural studies. and Reading University. The vertical machine may offer cost advantages over the more traditional windmill-type of winddriven generator. But both types are being studied. The department made a grant of £75,000 last June to an industrial consortium to provide ha-If the cost of a study of a large horizontal axis and wind machine.

Meanwhile a allocation of £840,000 over three years has been made

production of papyrus paper. The entire complex is worth

more than a million dollars.

Rediscovery

in production costs to make a

12 by 16 inch sheet of pap-

yrus which is sold then 107 \$20. About two feet of the

thickest part of the stem of

plant is used in making such

sheets. The outer rind is pe-

eled and the inner white pith is then sliced into long, thin

strips. These are soaked in

water and then pressed, soak-

ed and pressed again, and gi-

before the strips are laid out

side by side, slightly over-

lapping. Another layer of st-

rips is laid crosswise over the

first. Then both are sandwi-

ton cloth and felt, and left

in a handpress for two days.

The result is a sheet of paper a little thicker than bond, but

more pliable and much tough

It also has a remarkable

texture that can be painted

on with either oils or water

colours. And this is what has

made a financial success of

Dr. Ragab's venture-reproduct-

ions on papyrus sheets of the

spectacularly beautiful painti-

ngs in the tombs of the pha-

raohs and their queens. It ta-

kes more than 60 artists to

keep up with the tourist de-

mand for these. The repro-

ductions range in price from

And, judging by the mum-

ber of tourists who buy them,

It seems unlikely that the se-

cret of making paper out of pap-

yrus will ever be lost again.

News-Features

- Financial Times

\$12 to nearly \$500.

ven a final bath and press

It takes two weeks and \$15

ment programme into geothermal energy. One possibility is to tap heat from the "hot rocks" below the Cornish co-

The problems of harnessing solar energy in cloudy Britain have not caused the govern-ment to rule it out. A £3.6 m. programme for research and development work into solar energy is now entering its second year and has another

ciated by the politicians is that investment in renewable energy sources is vital but is not likely to provide a cheap or quick, solution to Britain's growing energy requirements.

Whereas a year ago Technology Support Unit of the Department of Energy

was estimating with great op-timism that renewable sources might contribute up to 40 million tons of coal equivalent annually by the year 2000, that estimate has now been revised. Latest government thinking is that renewable sources cannot be expected to provide more than a thny quentity of power before 2000. But in the first 25 years of the next century the forecasts indicate that renewable energy sources will grow rapidly in

No future projection of Britain's energy sources will be complete without inclusion of the renewable sources. It is difficult for the man-in-thestreet to believe in them before they have been shown to work in modern society. But work they must if Britain's energy supplies are to be both assured and cheap.

importance.

-- Financial Times News-Features

Weekly Wall Street Report

Stock market rebounds

NEW YORK, Feb. 25 (AP). --Stock market investors are due to get their first look at. some new statistical measures of the trend of consumer inflation this coming Monday. The Bureau of Labour Statistics (BLS) plans to intro-

duce two new measures of

the cost of living, as it mak-

es its regular monthly report on the consumer price index. The immediate impact of the January data on the macket may well be muted by investors' more immediate concern with breaking developments in the longest coal strike the nation has ever had.

But the figures are never theless certain to get close scrutiny on Wall Street, siven the financial community's perennial sensitivity to the issue of inflation.

It was hopes for an impending end to the coal strike that got credit for an upturn by the market in the past we-

After touching new 34-month lows on Tuesday and Wednesday and extending its string of consecutive daily losses to nine, the Dow Jones industrial average rebounded in the week's final two ses-

It closed at 756.24, up 3.55 points from the previous Fri-day's final reading. The New York Stock Exchange's composite index rose .29 to 49.19, and the Ame-

rican Stock Exchange market value index posted a .92 advance to 123.87. As the Merrill Lynch Market explained in its latest issue, the Bureau of Labour Statistics' two new consumer-

price measures are designed

to provide broader and more

up-to-date gauges of inflation traditional consumer price index, Merrill Lynch no-ted, "is limited to the buying patterns of urban wage earners and clerical workers based on a 'market basket' of goods and services purchased in 1960 and 1961."

One of the new indexes will cover the same workers, who represent about 40 per cent of the population, but will use revised 'market basket' giving greater weight to such expenditures as housing and traasportation and less to food. The other new index will

cover not only wage earners,

but professionals and self-employed people, as well as re-tirees and welfare recipients. At the same time new methods of gathering price data have been adopted. And six months from now, Merrill Lynch noted, the BLS plans to discontinue the old index and report only the two new ones from that point on

"Even with the changes, the new indexes will not be fect," the firm concluded. with all statistical sampling procedures, absolute accuracy is impossible. But they should provide a better guide to what's happening in consumer

As for what the numbers are likely to show Merrill Lynch estimates a silghtly faster rate of increase in the old index than in December, when a letup in the advance of food prices helped it record a relatively modest 0.4 per cent rise.

For January, the firm said "food prices should be up more but the rate of increase in other commodities and services is expected to be about the same.

"Among factors contributing to the inflation outlook this ar: Stepped-up food prices, fueled by supports for dairy products and sugar increased social security and unemployment taxes (employers are expected to pass on part of the gains to consumers) and the weakness of the dollar, which adds to the cost of impor-

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67.00/67.40

THE Sunday Crossword

(formerly The New York Herald Tribune Crossword) Edited by Herb Ettenso

LUMINARIES By Naney W. Atkinson



1 Missouri
county
2 Name
3 Peter
Frampton,
for one
4 Somewhat
suff.
5 — as the
eye can see
6 — eyed
7 Sesame
8 Everything
9 Control
10 Stang
11 Anatomical
cavity DOWN

12 Made a change in 13 Elegant 14 Rocky crag 15 Calm expanses 16 Rely on 17 Merrymakin 18 Reflection 19 Stacked up 20 Ledger items: abbr. 25 Wide open 26 Proboscis 31 Rebound 33 Ocsam motion ures, for short Starfish Group of horses Reducer

52 Canonical hours 55 Ethiopian

Diagramless

ACROSS 30 Oriental

19 X 19, by Adam Christopi

S'LUTIONS OF LAP. WEEK'S PUZZLES

the future

TYNK NALLYPKULY "SPEC-UM" WELCOMB

2 WSNDUE QBIONDP HECHYA WODCHPSQD: UABDO PURDY BIRD WHODO ODWHAIASUEY.

3. CLEANSHOW SKRUMLYC O'VUM CK WHOU RYNUGLYH LC ALV VUGEU VOLNY.

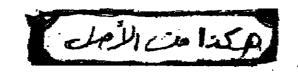
4 CONYP THLAKO KEONWWU PAROTHES PRYSALKO HE SHOW UPNYL CONSORT.

Last Week's Cryptograms

1. When you are in doubt, shout; don't shoot. Or, when you are in doubt, shout.

deminantly illiterate. Our drill is so dell that the holes are a bit bored. Bored weirde writes best seller.

مكذا من الأمل



GENERAL TENDENCIES: So long as you do not get set and show anger or irritation at those about you, you and the sole to achieve a great deal in your relations the other persons. Use your best judgment now to make

g-range plans.

g-range plans.

g-range plans.

1 REES (Mar. 21 to Apr. 19) Use diplomacy in handling a include to the state of the sta transfer that the member who may be untransfer actually the member actually the member who may be untransfer actually the member who may be untransfer actually the member actually the member who may be untransfer actually the member act

AURUS (Apr. 20 to May 20) Show that you are willing be of assistance to others. Take no chances where your od name is concerned.

JEMINI (May 21 to June 21) You can have a fine day

iemini (may as we was any interests are similar to your ands whose entertainment interests are similar to your nds whose successful and selection weather friend.

MOON CHILDREN (June 22 to July 21) The situation at ne is fine provided you do not bring up a controversial pject that could lead to arguments. New projects could

an new opportunities for you. Be wise.

LEO (July 22 to Aug. 21) Get into those spiritual studies C. L. Will elevate your consciousness. Visit with friends and tatives. Take time for informative reading.

ratives. Take time for miormanive reasons.

All takes. Take time for miormanive reasons. ancial and property affairs and you soon know how to down on expenses. Think big if you want to get big. JBRA (Sept. 23 to Oct. 22) Go after your personal goals don't be pushy with others or you get into trouble. the sure you do not overspend for anything now.

CORPIO (Oct. 23 to Nov. 21) Take care you are not CORPIO (OCL. 20 w May. a., 1 seems to be the pot into trouble. Evening can be a happy time, but not into troume. Le charming.

daytime. Be charming.

SAGITTARIUS (Nov. 22 to Dec. 21) Plan early to be charming and have a good time together. You get "Lis" "Tow ideas and desires that can be fine for you in the arre. Avoid one who is a hypocrite.

CAPRICORN (Dec. 22 to Jan. 20) Get home in better der and then go out to confer with persons you can trust de to the second then go out to comer what persons you dan help in community

AQUARIUS (Jam. 21 to Feb. 19) Don't go off on a new pagent that could yield you nothing but trouble. The latter rt of the day is fine for advancement, since the planets To the day is that time. Meet interesting personalities.

PISCES (Feb. 20 to Mar. 20) Study promises made to hers and know how best to carry through with them. Pay ills and feel more sure of yourself. Strive for greater curity in the future.

ESTAURANT TAIWAN TOURISMO ordan's largest and most

lenowned Chinese restaurant

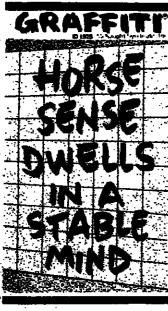
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es Wings Hotel, Jabat violee of THREE set medaily for lunch, and a urte.

pen 12-3 p.m. and 7-12. Specialty: steaks.

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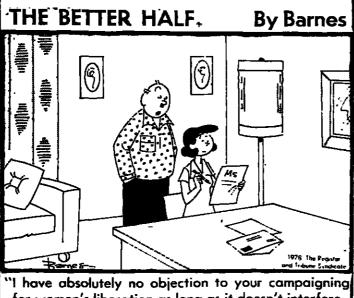
andy gapp DO SOMETHIN' WITH YOUR LIFE YOU'RE JUST GETTIN' — PEOPLE CAN ONLY SAY 'WHY DIDN'T YOUGET A JOB?' INSTEAD OF 'WHY DON'T YOUGET A JOB?' MINDYOLL BEING OLDER CAN'T BE OLDER AN' OLDER ALL BAD











for women's liberation as long as it doesn't interfere with your cooking, washing and cleaning."

JUMBLE THAT SCRAMBLED WORD GAME by Henri Arnold and Bob Lee Unscramble these four Jumbles 's going to get colder! one letter to each square, to form Tee heel F. four ordinary words. THACC **VELOR** REHFIE WHEN WERE ADAM AND EVE ASKED TO LEAVE THE GARDEN OF EDEN? MOYGOL Now arrange the circled letters to form the surprise answer, as suged by the above cartoon. Print answer here:

Jumbles: PIETY CASTE FLAXEN CLOVER Answer: What he showed when he got his new teeth—"FALSE" VANITY

CORED BRIDGE

BY CHARLES H. GOREN AND OMAR SHARIF 1978 by Chicago Tribune

Both vulnerable. South deals.

NORTH 4 Q 1082 **⊽962** ◊8742

+ K Q WEST EAST **•**95 **♠** A 3 r 7 ♥Q853 ♦KJ53 ♦ A 1096 **+** 1082

SOUTH **♦KJ764** ♥ A K J 104 0 Q 4 A 3

The bidding: South West North East Pass 2 + Pass Pass 3 + Pass 1 ♠ 30 4 🕈 Pass Pass Pass Opening lead: Three of C.

East took full advantage of the information supplied to him gratuitously by declarer to sink a seemingly cast-iron contract.

We don't know whether South's bid of three hearts was intended as a slam try or an effort to locate a better contract than four spades. If the former, he was hoping for a magic fit from his partner. Had he simply bid four spades at his second turn, he might have made his contract.

West led his fourth-best diamond, East won the ace and noted the fall of South's

queen. Prospects for defeating the contract seemed dim, for declarer was marked with the ace of clubs-he would not have bid so powerfully without that card.

There was one ray of hope. Declarer had announced length in hearts, so West had to be short in that suit. If declarer could be induced to take a wrong position in hearts, the defenders might be able to come to four tricks.

To give the impression that he, and not West, held the short hearts, East shifted to the eight of hearts at trick two. Alert to the possibility of a ruff, declarer won the ace and led a trump to the queen and East's ace. Now East continued with the three of hearts.

Consider the hand from the South seat. It looked as if East was striving for a heart ruff with a doubleton heart. If South risked the finesse, West would win the queen and continue with a heart, and East's ruff would defeat the contract.

Not surprisingly, declarer did what you and I would have done. He rose with the king of hearts, and East's well conceived plan came to fruition. West ruffed t monarch and exited with the king of diamonds. Though declarer ruffed, there was no way he could avoid conceding the setting trick to East's queen of hearts.



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Channel 3 & 6: 6:00 Quran 6:15 Cartoons 6:20 The Waltons 8:00 News in Arabic 11:00 News in Arabic Channel 3:

Channel 6: 7:30 News in Hebrew 7:45 Filler 8:30 Miles Jones and son 9:10 Roots 10:00 News in English 10:15 Hawaii Five-O

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Pather
News; Reflections
The Pleasure's Yours
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From the Wesklies
New Ideas
Sports Review
Take One
Sunday Service
News; News about Britain 18:15 Radio Newsreel
18:30 The influential Moon
18:00 Radio Theatre
18:45 Am I too Lond?
20:00 News; C unmentary
20:15 Europa
20:20 Banners and Bonnets
21:00 Letterbox
21:15 How to be a Musician
21:45 Theatre Call
22:40 News; Our Own Correspondent
Notes from an Observer; Reflections
22:45 Sportscall
23:00 The influential Moon
23:30 The influential Moon 11:15 Our Own Correspond-VOICE OF AMERICA

: News, Regional 18:30 Topical Reports; 19:00 Current News Special >
Special >
VOA W
5 Music >
News
20 volce/ AMMAN AIRPORT

Arrivals : 7:30 Kuwait
7:45 Jeddah
8:15 Dubai, Abu Dhabi
8:15 Kuwait (KAC)
9:00 Doha (BA)
9:40 Riyadh (SDI)
10:20 Beirut
17:00 Cairo 8:00 Beirut (MEA) 9:00 Frankfurt 9:15 Kirwalt (KAC) 9:30 Athens, Lamaca 10:00 Rome 10:00 London (BA)
11:00 Riyadh, Dhahran (SDI)
11:30 Cairo
11:30 Eaghdad (IA)
19:30 Baghdad (IA)
19:30 Baghdad
20:00 Abu Dhabi, Dubei
20:30 Bahrain, Bangkok
21:00 Jeddah
22:00 Tehran
22:30 Kuwait, Dhahran 19:15

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Somalia attacks U.S. decision release military aid to Ethiopia

MOGADISHU, Feb. 25 (R). — Somalia has angrily criticised the decision by the United States to send lorries and trailers to Ethiopia under a military aid agreement abrogated by Washington last year. Acting Information Minister Abdulsalam Sheikh Hussein told a press conference here last night: "The Somali Democratic Republic is astonished at the ambiguous and contradictory policy of the Carter administration."

The U.S. State Department of the deal is still suspended. announced earlier this week that following a visit by a special envoy of President Carter to Addis Ababa, Washington was to supply 23 trucks and trailers to Ethiopia in a deal worth \$700,000.

This was described by the State Department as the "nonlethal" section of a \$6 million military aid deal agreed before April, 1977, when the ended its military relawith Ethiopia. The rest

Mr. Abdulsalam, who is also Minister of Justice, said: "The United States has recently decided to re-supply Abyssinia (Ethiopia) with military equipment and spare parts as if excessive and sophisticated Russian weapons were not sufficient to achieve their sinister ob-

According to State Department figures released yesterday a massive airlift of Soviet equipment to Ethiopia included 400 tanks and 30 MiG combat aircraft. The U.S. also estimated that between 10,000 and 11,000 Cubans are directly or indirec-tly involved in fighting for the

Mr. Abdulsalam said it was not important that military equipment was being sent by Washington. "It is a matter of pr-

inciple," he said. The minister reflected growing Somali disappointment with Washington which it feels failed to respond adequately to the expulsion of the Russians from Somalia in November

Tennessee gas explosion kills 6

WAVERLY, Tennessee, Feb. 25 (R). — A railway tanker with propane gas exploded like a bomb in the centre of this small town yesterday, destroying 17 build-

only five bodies had been recovered from the rubble. A sixth victim, Waverly's fire chief, died in hospital from hurns.

More than 50 people were injured. Most of them suffer-First reports said more than 30 people were killed, but local officials said today that and started a series of fires.

The moon is shaking!

NEW YORK, Feb. 25 (R). — The moon is shaking and may have been doing so for the past 800 years.

For that is when a giant meteor could have smashed into its surface, according to two astronomers who have combined the most up-to-date scientific measurements by laser beam with the naked-eye observations of a group of Medieval English monks on the night of June 18, 1178.

On that night, according to the chronicles of Gervase of Canterbury, a flaming torch sprang up from the moon, "spewing out, over a considerable distance, fire, hot coals and sparks."

The moon's shaking, in effect an eight to ten metre oscillation every three years, could prove that what the monks saw was a huge meteor gouging a 20-kms, wide crater its surface, according to astronomers Odile Calame and

Derral Mulholland. Writing in Science, the journal of the American Association for the Advancement of Science, they said the oscillations detected by laser observation might have been caused by the meteor impact, much in the same way that great earthquakes produce os-

cillations on earth. The theory that the monks saw a meteorite impact is not new. Dr. Jack Hartung, the State University of New York, suggested over a year ago that the impact caused the crater known as Giordano Bruno, on the far side of the moon.

The crater is 20 kms. wide and has an extensive system of small craters and debris thrown out by the impact.

Experts have also said the

monks may have seen a meteor entering the earth's atmosphere across their view of But Drs. Calame and Mulholland suggest that Giordano

Bruno's crater system indicates that "the event (the mete-or impact) would have been visible to the monks of the Canterbury chronicle." The scientists say their in-

vestigations show that such an impact would have been visible to observers on earth and that "the only modern observations (the calculations by laser) that are capable of revealing the dynamical vestiges of such an event provide a compatible result."

The final proof, they add, could be provided by chemical analyses of soil samples brought back by the unmanned Soviet moon probe Luna which landed near the

The tanker, one of two derailed in a mishap yesterday, exploded as a breakdown gang was pumping its load of 20,000 gallons of liquid gas into another tanker.

The entire 6,000 population Waverly was evacuated af-Army and police helicopters

were called in to ferry the injured to every available hospital, including those in Na-shvile about 110 kms. away. Officials said many of the injured were badly burnt. There was a bright light suddenly it got very one resident living near railway line told report-

"We knew it was those cars that caught fire." The second derailed tanker was slightly damaged in the explosion, and officials were planning to unload it later to-

Mr. Rod Collins, a Civil Defence coordinator, said that if it exploded it would blow like a torch right up through the Hollow," a housing esta-te where several hundred fa-

Carter to visit S. America, Africa

WASHINGTON, Feb. 25 (AP). - President Carter last night formally announced he will leave Washington on March 28 for his first state visit to south America and Africa. The announcement said the seven-day presidential trip to Venezuela, Brazil, Nigeria and Liberia will show the importance the administration attaches to new and developing nations and will promote U.S. interests ranging from energy to human rights. In the statement, Mr. Carter said the trip will also provide an opportunity to reaffirm the administration's "engagement and interest" in economic development and in curbing the spread of nuclear weapons.



enjoys a dance with Margaret Trudeau, separated wife of the Canadian prime minister, at the floor of New York's night spot Regine's on Friday. (AP wirephoto)

U.N. body disagrees hostage-taking

GENEVA, Feb. 25 (AP). Western, Arab and non-aligned nations failed yesterday to reach agreement on the drafting of an international convention against the taking of hostages after two-and-a-half weeks of public and closed-

It was the second time in six months that the 34-nation committee, which first met in New York last August. was unable to agree on

work into next year. Negotiations throughout the

18-day session here focussed mainly on the question of national liberation movements and the exact definition of what constituted the taking of Several committee members

the text of a resolution con-demning the practise.

pted a resolution stating it

was "unable to complete its

mandate" and recommended

that the United Nations Ge-

Assembly extend its

Instead, the committee ado-

complained that a draft convention submitted by West Germany offered no exemption for national liberation movements and supported a proposal put forward by Algeria hostages "would not include any act ... in which peoples are fighting against colonial domination, foreign occupation, apartheid and racist regimes."

But at yesterday's final session of the committee, United States delegate Robert Rosenstock said his delegation could not accept the idea that laws apply differently depending on the popularity of the perpetrator."

northeastern territory of Aru-nachal Pradesh. First reports from the other two states, Maghalaya and Assam in the northeast,

The elections provide the fi-

They will also show how much support the official Congress still commands, particularly in its strongholds in Maharashtra and Andhra Pra-

Eighty-six-million were eligible to participate in the voting that followed campalgning much quieter than for the national elections that brought Prime Minister Morarji Desai's Janata Party to

power 11 months ago. Mr. Desai, 81, and Mrs. Gandhi, campaigned by helicopes in the last pre-election

ake in Andhra Pradesh, 288 in Maharashtra, 224 in Karnataka, 126 in Assam, 60 in Meghalaya and 30 in Arunachal Pradesh.

Results of the voting are

Suarez reshuffles cabinet for battles with left

Senor Fuentes Quintana qu-

it because he was tired of

constant sniping at his anste-

rity programme by members

of Senor Suarez own Centr-

Senor Suarez changed four ministers and gave the Eco-

nomics portfolio to Senor Fer-

nando Abril Martorell, the Se-

cond Deputy Prime Minister in charge of Political Affairs.

Senor Abril Martorell is not an economics expert, and his new post was expected to

The other ministries affec-

ted were Industry, Transport,

Labour and Agriculture.
The new faces included Industry Minister Agustin Rod-

riguez Sahagan, a successful industrialist and a backer of

the free enterprise system, and Transport Minister Salva-dor Sanhez-Teran, who as an

aide to Senor Suarez negotiated the granting of autonomy

ic laws. It must also face

Socialists and Communi-

could gain a majority in

ist Party.

be temporary.

to Catalonia.

MADRID, Feb. 25 (R). - Prime Minister Adolfo Suarez has reshuffled his cabinet to give it a tougher image for election battles with Spain's leftist opposition this year. The changes, which gave the government a slightly right-of centre look, were forced upon the prime minister by the resignation of Economics overlord Enrique Fuentes Quintana.

Key state elections India

Later this year the govern-ment will hold a referendum NEW DELHI, Feb. 25 (Agenon a new constitution now cies). - Voting began today in Indian state elections whbeing written by a parliamentary committee to replace ich could be crucial to the future of the ruling Janata Gen. Franco's dictatorial bas-Party and its opponents in the two wings of the divided Conmunicipal elections in which

gress Party.
The elections were for new assemblies in five states, including the major States of Karnataka, Andhra Pradesh and Maharashtra in south and central India, and the special

said voting was brisk in rural

rst electoral chance for for-mer Prime Minister Indira Gandhi's breakaway Congress faction since the party split last month.

There were two seats at st-

expected to be announced Sunday night in Karnataka and later next week in the other

Angry pyjama maker plans to fight elections with his "Union of Commonsense Frenchmen"

By Jack Gee

PARIS, (FT) — M. Gerard Furnon, a 35-year old clothing manufacturer, could feasibly upset the prospects of both government and opposition camps in France's March general elections by a spectacular entry on the political sce-ne with his "Union of Commonsense Frenchmen."

M. Furnon hoped to field 300 candidates on polling day. He has finally nominated only 40. But the new party's programme and the charisma of its founder could make a considerable dent in established political clienteles in France.

This self-made man, who built an investment of 4,000 francs 11 years ago into what is today the country's most flourishing pyjama firm, ap-peals to deep-seated admiration in a land which far more than Britain -- to which Napoleon originally applied the tag -- is at heart a nation of shopkeepers

Not the first

The platform which he proposes to "Commonsense Frenchmen" is basically the same as that which won for M. Pierre Poujade, a rural bookshop owner, 12 per cent of the vote and 30 seats in parliament in 1956.

M. Poujade, who campaig-ned against leftwing trade unionism and government interference with free enterprise, is now a forgotten figure. But he contributed in good mea-sure to create the chronic political instability which doo-med the Fourth Republic and brought Gen. Charles de Gaulle to power in triumph.

M. Furnon is a maverick byproduct of the often sunny and always volatile south of France. His personal declaration of war on the unions has been applauded by small and larger businessmen all over the country.

He hit the newspaper hea-dlines a year ago with a solo effort to prevent the powerful Communist-run union, Confederation Française du Travail (CGT) from "contaminat-ing" his firm at Ales, near Avignon, by enlisting membership.

M. Furnon began his firm with six working girls -- one of whom became his wife -and six sewing machines. Today his turnover approaches \$12 million a year with a pay-roll of 200 female staff. Thanks to a generous bonus scheme for productivity and costsaving, they are the highest paid in the French garment industry. M. Furnon's pyjama empire is a slick, clock-work operation and the envy of the textile kings of Singapore and

A self-made man whose success endears him to many French people is launching into the election campaign with his "Union of Commonsense Frenchmen." His programme offers to get rid of trade unions, death duties and income tax, and is causing concern among the established parties.

Advent of trouble

The Clark Gable moustache of this handsome young entrepreneur first appeared on the front-pages when 50 of his young ladles tried to open local branch of the CGT at his Ales factory, near Avig-non. M. Furnon literally saw red. The appearance of trade unionism on his shop floor augured the end of a happy family business and, what was worse, the end of his pro-

M. Furnon took the case to the courts. It was the beginning of a long court battle whose latest instalment, this month, was the loss of a \$600,000 action for damages against Communist Party Secretary General Georges Marchais and the CGT's roly-poly leader Georges Seguy.

M. Furnon made more im-

pact on public opinion when scores of his women workers backed him in a counter-attack. They rented a fleet of but es and set off for Paris in their blue and white factory

The Furnon girls spilled all over the capital's streets like fearless Amazons shouting "Seguy, if you carry on like this, the girls from Furnon's will bott your arse."

The pyjama maker won his first round by negotiating a compromise which split his firm into two separate corpora-tions. One is a limited liability company in which 130 employees still work under the old relationship between girl and master. The other functions like most other French firms of its size, with a union branch but no handsome

Commonsense is politics

M. Furnon's venture caught the imagination of small shopkeepers so successfully that he decided to launch his own party, The "Union of Comm-

onsense Frenchmen." Its prog-ramme is a catch-all document designed to appeal to everybody who believes that the French economy can be run effectively without trade unions, death duties, profits tax or even income tax.

The union's campaign posters show an idyllic scene of a country village peopled by ha-ppy families living in rural bliss. In the background a thick mist reveals the outline of grim factory chimneys and council flats. These two wor-lds are separated by a high-way -- the road of common-

M. Furnon's doctrine espo-uses many of the theories of the extreme right whose leaders are visibly uneasy about his rivalry in the political arena. National Front leader Jean-Marie le Pen admits: "Many of M. Furnon's kleas are similar to our own," The Socialists have not yet

joined their Communist allies in trying to counter the Furnon threat. But it will probably not be long before Socialist leader Francols Mitterrand denounces them, as he did the Poujadism two decades ago, as "behind-the-coun-ter Fascism."

M. Furnon says: "This country is badly governed. The collectivists are bringing France to the brink of ruin. Frenchmen have nothing to expect from the majority and everything to fear from opposi-Still a mystery are the ori-

gins of the massive treasure chest which is financing M. Furnon's campaign. M. Furnon says it is partly funded by \$30,000 of his own savings which he had set aside to buy himself a new Alpine chalet. The "Union of Commonse-nse Frenchmen" is installed in comfortable offices off the Champs Elysees. It claims to have 16,300 card-carrying members whose donations pay the rent and other campaign expenses. The union has sent out 217,000 letters to small shopkeepers, 40,000 others to owners of small factories, 40,000 to business executive and 515,000 to members of the liberal professions. But it declines to reveal how much these round-robins have produced in contributions.

M. Furnon has also written a book about his personal success story, printed 50,000 copies of a campaign brochure and 10,000 posters. In all one million posters will be displayed when the campaign gets

This is indeed a substantial effort for an organisation which is making its political debut. But will the pyjama maker from Ales leave the same imprint on France as M. Poujade, the stationer of Saint-

> Financial Times News-Features

Israeli oranges

TOKYO, Feb. 25 (R), ... Japan is returning 6,000 cartons of Israeli oranges following the discovery of mercury-infected fruit in Europe.

The Japanese Fruit Imp orters Association and Jaf. ta Japan said they had decided to return the consignment, which arrived by ship last Wednesday, be-cause the fruit might damage the image of other imported oranges. A spokesman for the importers said the oranges would not be tested before being returned. The Health

and Welfare Ministry said it would conduct stricter than normal tests on any further consignments Israeli oranges before they were unloaded here. Yesterday the Israeli Cit-rus Marketing Board said its country's citrus sales in Europe had returned normal after a month of sharp decline following the discovery of poisoned oranges in Britain, Holland, Denmark, West Germany and Italy.

U.S. to develop new missile for Euro use

WASHINGTON, Feb. 25 (R). U.S. Defence Secretary Harold. Brown has ordered the air force to prepare tentative plans to develop a mobile, medium-range, nuclear ballist-ic missile for use in Europe, according to government sou-

The missile, which would have a range of about 3,000 kms. and carry multiple warheads, would be a direct counter to the Soviet SS-20 mobile ballistic missiles deployed by the communist Warsaw Pact in Eastern Europe. The proposal for the mis-sile is due to be included in guidance for formulating the 1980 defence budget which

will go to the White House

late next month for approval,

the sources said.

ment the proposed nuclear ground-launched Cruise missile (GLCM), a pilotless drope aircraft capable of flying be neath the scan of ballistic missile radar defences, Cruise missiles have been

an issue in the nuclear arms talks with the Soviet Union, and America's European allies have been uneasy about the effect the proposed 2,400-kms. range limit would have on the GLCM's military effectiven The new missile would not be affected by the Strategic Arms Limitation Treaty (SALT), as is the case with the Russian SS-20 medium-range missile. SALT only covers ballistic missiles with an intercontinental range greater than 5,000 kms.

Rhodesia's Meet black Jews who believe

RUSAPE, Rhodesia, Feb. 25 (AP). — A largely unknown congregation of black Jews, an offshoot of an American Judzic movement, is pursuing its religion deep in Rhodesia's interior.

Every Saturday, Rubbi Ambrose Makuwaza leads some 50 members of the Sons of Judak in worship at the Church of God, Temple Bethel Synagogue in the Chiduku African Reservation, near Russpe, some 145 kms. cest of Salisbury.

The Star of David, painted above the doorway of the brick and tin-roofed synagogue. is the symbol of the "promised

and tin-roofed synagogue, is the symbol of the "promised land" for the 8,000 black members of the movement in the According to Rabbt Makuwaza, the Church of God, also known as the Saints of Christ Religion, was brought to Southern Africa in 1962 by American missionaries.

"In 1886 a missionary came to Rhodesia and my parents joined the faith," the rabbi said. The missionary brought with him the Torah, or the Five Books of Moses, written in English "I grew up in this faith and founded this synagogue at Ru sape in 1960," he continued.

"We are truly Jews. Although we believe in Christ as the Messiah, we are black Jews. The Jewish people who worshipped long ago were in this church. Our roots are in prophetic Judakan and I am of the House of Levi."

Rabbi Makuwaza is also an "Nganga," or herbalist.

According to a local expert on Hebrew history, Rabbi William S. Crowdy was the founder of the Church of God, Temple Bethel. He was the son of black staves in the United States.

In 1886 Rabbi Crowdy broke with the churck to foun his own congregation, following a Hybridized religion incorporating Judaic and Christian principles, but having its foundation

in Jewish tradition.

Headquarters of the movement are in Bellville, which Rabbt Makuwaza was invited to visit in 1972.
Rabbt Makuwaza was invited to visit in 1972.
Rabbt Makuwaza's congregation worships according to the ancient traditional rites of Judaism. A typical service begins with Rabbi Makuwaza, dressed in the traditional black rubes

want states makenesses, treases in the traditional pasts who and shall cap, were also by the men in the congregation, blowing a call on the Shofar, the traditional ram's hom.

Led by a black descen, the congregation horsts into a chant, a hypnotic mixture of Judaham and African chants.

The choir of young women, dressed in whith blower and black sixting, are known as the Daughters of Zion. The older the should be should be a should be shown by should be should be should be should be should be should b women in the church, the Sisters of Mercy, join in, singles

and clapping entiusiastically.

During the service the Ten Communicating are read and explained. An elder then reads out another set of beliefs, the "Seven Keys". At some point in the service the elders jett

are washed by the congregation.

After these preliminaries, a blast from the Shoter signal. the commencement of services.

Adhering to the Judnic calendar, followers of the Sons of Judnic observe the religious holidays, including Passover and Your Kippur -- the Day of Atonement.

